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PTO/SB/80 (01-06)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).

I hereby appoint:



Practitioners associated with the Customer Number:

35437

OR



Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

35437

OR

<input type="checkbox"/> Firm or Individual Name	Mintz, Levin, Cohn, Ferris, Glovsky & Popeo, P.C.		
Address	Chrysler Center, 666 Third Avenue		
City	New York	State	New York
		Zip	10017
Country	USA		
Telephone	212-935-3000	Email	

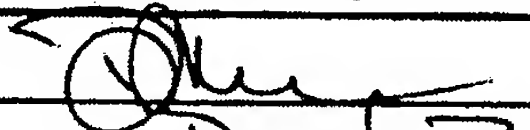
Assignee Name and Address:

Arteriocyte Medical Systems, Inc., 11000 Cedar Avenue, Cleveland, Ohio 44106, USA

A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	1/17/08
Name	Donald Brown	Telephone	617-794-2711
Title	Chief Executive Officer		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Victor D. Dolecek, David Malcolm /Arteriocyte Medical Systems, Inc.Application No./Patent No.: 09/833,233/6,835,316 Filed/Issue Date: April 9, 2001Entitled: CLAMSHELL BLOOD RESERVOIR HOLDER WITH INDEX LINEArteriocyte Medical Systems, Inc., a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest
(The extent (by percentage) of its ownership interest is _____ %)

in the patent application/patent identified above by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: Victor D. Dolecek To: Medtronic, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 012250, Frame 0475, or for which a copy thereof is attached.

2. From: Victor D. Dolecek, David Malcolm To: Medtronic, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 018440, Frame 0283, or for which a copy thereof is attached.

3. From: Medtronic, Inc. To: Arteriocyte Medical Systems, Inc.

The document was recorded in the United States Patent and Trademark Office at
Reel 020362, Frame 0735, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature

Brian P. Hopkins, Reg. No. 42,669 / Boris A. Matvenko, Reg. 48,165

Printed or Typed Name

Attorneys of Record

Title

January 24, 2008

Date

212-935-3000

Telephone Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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P-9527.00

DECEMBER 20, 2001

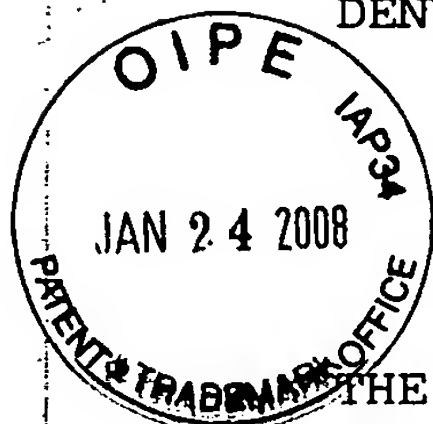
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Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

HOGAN & HARTSON LLP
SARAH S. O'ROURKE
1200 17TH STREET, SUITE 1500
DENVER, CO 80202



101879064A



UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/09/2001

REEL/FRAME: 012250/0475
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

DOLECEK, VICTOR D.

DOC DATE: 09/24/2001

ASSIGNEE:

MEDTRONIC, INC. ✓
710 MEDTRONIC PARKWAY
MS LC340
MINNEAPOLIS, MINNESOTA 55432-3576

SERIAL NUMBER: 09833233 ✓
PATENT NUMBER:

FILING DATE: 04/09/2001 ✓
ISSUE DATE:

SHAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

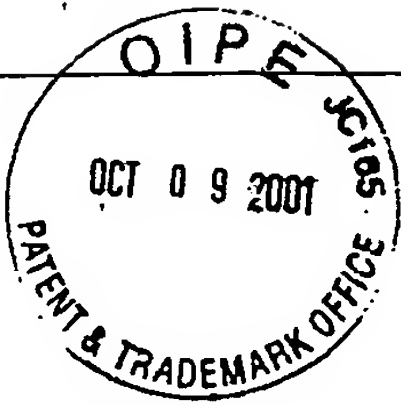
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HOGAN & HARTSON, LLP

10-11-01

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10-19-2001



101879064

U.S. Department of Commerce
Patent and Trademark Office
PATENT

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TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

- ☒ New
- ☐ Resubmission Document ID# (Non-Recordation)
- ☐ Correction of PTO Error
Reel # Frame #
- ☐ Corrective Document
Reel # Frame #

Conveyance Type

- ☒ Assignment ☐ Security Agreement
- ☐ License ☐ Change of Name
- ☐ Merger ☐ Other

U.S. Government
(For Use ONLY by U.S. Government Agencies)

- ☐ Departmental File ☐ Secret File

Conveying Party(ies)

☐ Mark if additional names of conveying parties attachedName (line 1) **Victor D.**Execution Date
Month Day YearName (line 2) **Dolecek****9/24/01**

Second Party

Name (line 1) Execution Date
Month Day YearName (line 2)

Receiving Party

☐ Mark if additional names of receiving parties attachedName (line 1) **Medtronic, Inc.**Name (line 2) **a Minnesota corporation**Address (line 1) **710 Medtronic Parkway**Address (line 2) **MS LC340**Address (line 3) **Minneapolis****Minnesota****55432-3576**

City

State/Country

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached.
(Designation must be a separate document from Assignment)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

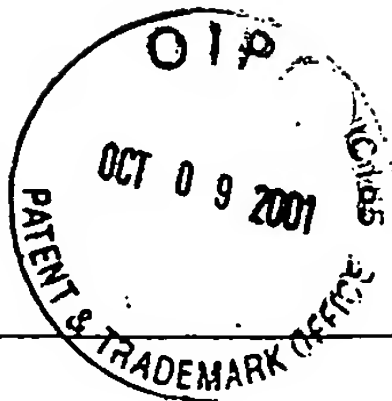
Name Address (line 1) Address (line 2) Address (line 3) Address (line 4)

FOR OFFICE USE ONLY

10/19/2001 09:44:01 01000108 09433233

10:52:01

44,00 01



Page 2

U.S. Department of Commerce
Patent and Trademark Office
PATENT

Correspondent Name and Address

Area Code and Telephone Number

(720) 406-5385

Name (line 1) Sarah S. O'Rourke

Address (line 1) Hogan & Hartson LLP

Address (line 2) 1200 17th Street, Suite 1500

Address (line 3) Denver, CO 80202

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document including any attachments

#

4

Application Number(s) or Patent Number(s)

☐

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

09/833,233

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number
only if a U.S. Application
Number has not been
assigned

PCT

PCT

PCT

PCT

PCT

PCT

Number of Properties

Enter the total number of properties involved

#

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$

40.00

Method of payment:
Deposit AccountEnclosed ☒Deposit Account ☐

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

#

50-1123

Authorization to charge additional fees:

Yes ☒No ☐

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Sarah O'Rourke, 41,226

Name of Person Signing

Signature

Oct. 9, 2001

Date

ASSIGNMENT

WHEREAS, I, Victor D. Dolecek, having a residence address of 6607 S. Atchinson Way, Englewood, CO 80111, have made a certain new and useful invention relating to a BLOOD CENTRIFUGE HAVING CLAMSHELL BLOOD RESERVOIR HOLDER WITH INDEX LINE, for which I am making or have made application for Letters Patent of the United States, said application being identified by Serial No. 09/833,233, and which is executed concurrently herewith in the law firm of HOGAN & HARTSON LLP, One Tabor Center, 1200 17th Street, Suite 1500, Denver, Colorado 80202, and which is executed concurrently herewith, and

WHEREAS, I now own the entire right, title and interest therein; and

WHEREAS, Medtronic, Inc., hereinafter ASSIGNEE, a Minnesota corporation, whose mailing address is 710 Medtronic Parkway, MS LC340, Minneapolis, Minnesota 55432, is desirous of acquiring the entire interest in and to said invention, said application, and the Letters Patent to be obtained therefor;

NOW THEREFORE, upon consideration of my employment and other good and valuable consideration, the adequacy of which is hereby acknowledged, I do hereby sell and assign unto ASSIGNEE, and ASSIGNEE'S legal representatives, successors, and assigns, the entire right, title, and interest in and to said invention, said application, and the Letters Patent, both of the United States and of other countries, that may or shall issue thereon; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, consistent with the terms of this Assignment.

UPON SAID CONSIDERATION, I do hereby covenant and agree with ASSIGNEE that I will not execute any writing or do any act whatsoever conflicting with this assignment,

and that I will, at any time upon request, without further or additional consideration, but at the expense of ASSIGNEE, execute such additional assignments and other writings and do such additional acts as ASSIGNEE may deem necessary or desirable to perfect the ASSIGNEE'S enjoyment of this grant, and render all necessary assistance in applying for and obtaining original, continuation, continuation-in-part, divisional, reexamined, renewal, reissued or extended Letters Patent of the United States, or of other countries, or inventor's certificates, on said invention, and in enforcing any rights or causes in action accruing as a result of such applications, certificates, or patents, by giving testimony in any proceedings or transactions involving such applications, certificates, or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal on the date hereinafter set forth.

Date: 9-24-01

Victor D. Dolecek
Victor D. Dolecek

STATE OF COLORADO)
COUNTY OF Grand) ss.

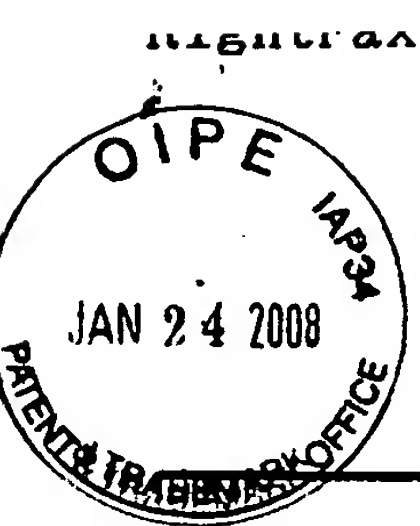
On this 3rd day of October, 2001, before me, a notary public in and for said county, appeared Victor D. Dolecek, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, sealed, and delivered the same instrument as a free and voluntary act for the uses and purposes therein set forth.

My commission expires 8/30/2002

Witness my hand and official seal.

(SEAL)

Shirley Wendell
Notary Public



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

OCTOBER 26, 2006

PTAS

500170238A

KATHARINE A. JACKSON HUEBSCH
710 MEDTRONIC PARKWAY
MINNEAPOLIS, MN 55432

500170238A

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 10/26/2006

REEL/FRAME: 018440/0283
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: P952700

ASSIGNOR:

DOLECEK, VICTOR D

DOC DATE: 08/16/2004

ASSIGNOR:

MALCOLM, DAVID

DOC DATE: 08/16/2004

ASSIGNEE:

MEDTRONIC, INC.
710 MEDTRONIC PARKWAY
MINNEAPOLIS, MINNESOTA 55432

SERIAL NUMBER: 09833233

FILING DATE: 04/09/2001

PATENT NUMBER: 6835316

ISSUE DATE: 12/28/2004

TITLE: CLAM SHELL BLOOD RESERVOIR HOLDER WITH INDEX LINE

018440/0283 PAGE 2

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

10/26/2006
500170238

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Victor D Dolecek</td><td>08/16/2004</td></tr><tr><td>David Malcolm</td><td>08/16/2004</td></tr></tbody></table>		Name	Execution Date	Victor D Dolecek	08/16/2004	David Malcolm	08/16/2004				
Name	Execution Date										
Victor D Dolecek	08/16/2004										
David Malcolm	08/16/2004										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Medtronic, Inc.</td></tr><tr><td>Street Address:</td><td>710 Medtronic Parkway</td></tr><tr><td>City:</td><td>Minneapolis</td></tr><tr><td>State/Country:</td><td>MINNESOTA</td></tr><tr><td>Postal Code:</td><td>55432</td></tr></table>		Name:	Medtronic, Inc.	Street Address:	710 Medtronic Parkway	City:	Minneapolis	State/Country:	MINNESOTA	Postal Code:	55432
Name:	Medtronic, Inc.										
Street Address:	710 Medtronic Parkway										
City:	Minneapolis										
State/Country:	MINNESOTA										
Postal Code:	55432										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>09833233</td></tr></tbody></table>		Property Type	Number	Application Number:	09833233						
Property Type	Number										
Application Number:	09833233										
CORRESPONDENCE DATA											
Fax Number: (763)391-9668 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 7633919634											
Email: kathy.j.huebsch@medtronic.com											
Correspondent Name: Katharine A. Jackson Huebsch											
Address Line 1: 710 Medtronic Parkway											
Address Line 4: Minneapolis, MINNESOTA 55432											
ATTORNEY DOCKET NUMBER:	P952700										
NAME OF SUBMITTER:	Katharine A. Jackson Huebsch										
Total Attachments: 3 source=P9527Assignment#page1.tif source=P9527Assignment#page2.tif source=P9527Assignment#page3.tif											

CH \$40.00 09833233

ASSIGNMENT

WHEREAS, WE, Victor D.Dolecek, and David Malcolm, are the inventors of BLOOD CENTRIFUGE HAVING CLAMSHELL BLOOD RESERVOIR HOLDER WITH INDEX LINE for which we have executed an application for filing in the United States Patent and Trademark Office preparatory to obtaining Letters Patent of the United States on April 9, 2001, which application is identified therein as U.S. utility patent application No. 09/833,233 ; therefor, and

WHEREAS, MEDTRONIC, INC. a corporation organized and existing under the laws of the State of Minnesota and having a principal place of business at 710 Medtronic Parkway, Minneapolis, Minnesota 55432, hereinafter referred to as "Corporation," is desirous of acquiring the entire right, title and interest in and to said invention for the United States and for all foreign countries and in and to any and all foreign and domestic Letters Patent which may be granted therefor,

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Corporation, its successors and assigns, the entire right, title and interest in and to said invention and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefor including my rights under the International Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Letters Patent that may be granted, the same to be held and enjoyed by Corporation for its own use and behoof and use and behoof of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made;

AND, for the consideration aforesaid, I materially represent to Corporation, its successors and assigns, that at the time of the execution and delivery of these presents, I am the sole lawful owners of the entire right, title and interest in and to the invention, application and Letters Patent above mentioned, and that the same are unencumbered, and that I have good right and lawful authority to sell and convey the same in the manner herein set forth;

AND, for the consideration aforesaid, I hereby individually covenant and agree to and with Corporation, its successors and assigns, that whenever its counsel or the counsel of its successors or assigns, learned in the law, shall advise that an amendment or division of, or continuation or any continuation-in-part thereof, or any other proceeding in connection with the filing or prosecution of

said domestic or foreign patent applications, including interference proceedings, is lawful and desirable, or that a reissue of extension of said Letters Patent is lawful and desirable, I, or my executors, administrators or assigns will sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or extension of the same, without charge to Corporation, its successors or assigns, but at Corporation's expense.

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 16th
day of August, 2004.

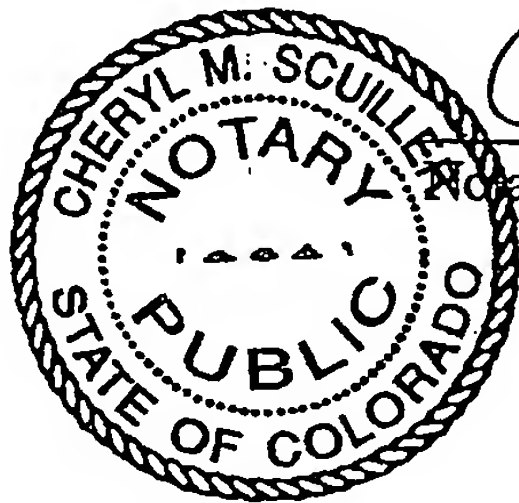
Victor D. Dolecek
Victor D. Dolecek

STATE OF Colorado

COUNTY OF Douglas ss.

On this 16th day of August, 2004, before me personally appeared Victor D. Dolecek, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



Cheryl M. Sculler
Notary Public

My Commission Expires 05/15/2007

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Corporation in accordance with this instrument.

IN WITNESS WHEREOF, I have hereunto set my hand on this 16th
day of August, 2004.

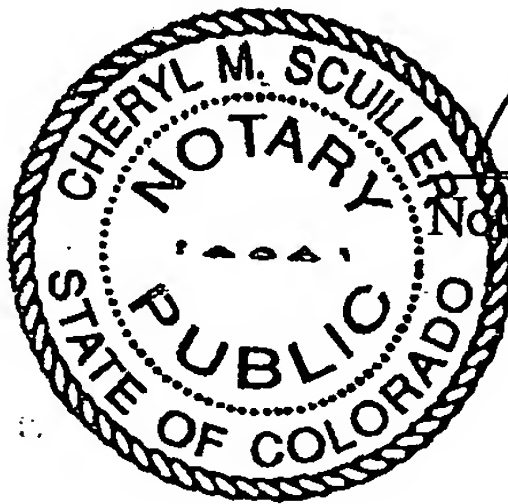
David Malcolm
David Malcolm

STATE OF Colorado

COUNTY OF Douglas ss.

On this 16 day of August, 2004, before me personally appeared David Malcolm, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.



Cheryl M. Sculler
Notary Public

My Commission Expires 05/15/2007

TO: BORIS A. MATVENKO COMPANY: MINTZ, LEVIN ET AL.



UNITED STATES PATENT AND TRADEMARK OFFICE

Facsimile Transmission

To: Name: BORIS A. MATVENKO
 Company: MINTZ, LEVIN ET AL.
 Fax Number: 12129833115
 Voice Phone:

From: Name: ASSIGNMENT SERVICES BRANCH
 Voice Phone: 571-272-3350

37 C.F.R. 1.6 sets forth the types of correspondence that can be communicated to the Patent and Trademark Office via facsimile transmissions. Applicants are advised to use the certificate of facsimile transmission procedures when submitting a reply to a non-final or final Office action by facsimile (37 CFR 1.8(a)).

Fax Notes:

Pg#	Description
1	Cover Page
2	567.TXT
8	572.TXT
9	Document 1, Batch 1146024

Date and time of transmission: Wednesday, January 16, 2008 8:11:26 PM
Number of pages including this cover sheet: 12

TO: BORIS A. MATVENKO COMPANY: MINTZ, LEVIN ET AL.

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JANUARY 16, 2008

500440311A

PTAS

BORIS A. MATVENKO
MINTZ, LEVIN ET AL.
CHRYSLER BUILDING, 666 THIRD AVENUE
NEW YORK, NY 10017UNITED STATES PATENT AND TRADEMARK OFFICE
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THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
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MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 01/15/2008

REEL/FRAME: 020362/0735

NUMBER OF PAGES: 9

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 37272-500

ASSIGNOR:

MEDTRONIC, INC.

DOC DATE: 10/24/2007

ASSIGNEE:

ARTERIOCYTE MEDICAL SYSTEMS, INC.
11000 CEDAR AVENUE
SUITE 270
CLEVELAND, OHIO 44106

SERIAL NUMBER: 60010922

FILING DATE: 01/31/1996

PATENT NUMBER:

ISSUE DATE:

TITLE: TUBING CLAMPS FOR BLOOD SEPARATING APPARATUS

SERIAL NUMBER: 60010944

FILING DATE: 01/31/1996

PATENT NUMBER:

ISSUE DATE:

TITLE: ROTARY PLATE AND BOWL CLAMP FOR BLOOD CENTRIFUGE

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020362/0735 PAGE 2

SERIAL NUMBER: 60010924 FILING DATE: 01/31/1996
PATENT NUMBER: ISSUE DATE:
TITLE: CENTRIFUGE BOWL HOUSING AND LATCH FOR BLOOD SEPARATING APPARATUS

SERIAL NUMBER: 60010939 FILING DATE: 01/31/1996
PATENT NUMBER: ISSUE DATE:
TITLE: APPARATUS AND METHODS FOR BLOOD SEPARATION

SERIAL NUMBER: 08640278 FILING DATE: 04/30/1996
PATENT NUMBER: ISSUE DATE:
TITLE: METHOD FOR MAKING AUTOLOGOUS FIBRIN SEALANT

SERIAL NUMBER: 10848302 FILING DATE: 05/18/2004
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS OF APPLYING A BIOLOGICAL COMPOSITION TO AN INDIVIDUAL

SERIAL NUMBER: 11004023 FILING DATE: 12/03/2004
PATENT NUMBER: ISSUE DATE:
TITLE: AUTOLOGOUS FIBRIN SEALANT AND METHOD FOR MAKING THE SAME

SERIAL NUMBER: 11044984 FILING DATE: 01/27/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS OF APPLYING A BIOLOGICAL COMPOSITION TO AN INDIVIDUAL

SERIAL NUMBER: 11049010 FILING DATE: 02/02/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS OF APPLYING A BIOLOGICAL COMPOSITION TO AN INDIVIDUAL

SERIAL NUMBER: 11159482 FILING DATE: 06/23/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS OF APPLYING A BIOLOGICAL COMPOSITION TO AN INDIVIDUAL

SERIAL NUMBER: 11003681 FILING DATE: 12/03/2004
PATENT NUMBER: 7306741 ISSUE DATE: 12/11/2007
TITLE: FLEXIBLE CENTRIFUGE BAG AND METHODS OF USE

SERIAL NUMBER: 11120305 FILING DATE: 05/02/2005
PATENT NUMBER: ISSUE DATE:
TITLE: AUTOLOGOUS PLATELET GEL SPRAY DELIVERY SYSTEM

SERIAL NUMBER: 09832881 FILING DATE: 04/09/2001
PATENT NUMBER: ISSUE DATE:
TITLE: MINIATURIZED BLOOD CENTRIFUGE HAVING SIDE MOUNTED MOTOR WITH BELT DRIVE

SERIAL NUMBER: 11003912 FILING DATE: 12/03/2004
PATENT NUMBER: ISSUE DATE:
TITLE: BLOOD CENTRIFUGE HAVING CLAMSHELL BLOOD RESERVOIR HOLDER WITH INDEX LINE

SERIAL NUMBER: 11172200 FILING DATE: 06/30/2005
PATENT NUMBER: ISSUE DATE:
TITLE: AUTOLOGOUS PLATELET GEL HAVING BENEFICIAL GEOMETRIC SHAPES AND METHODS OF MAKING THE SAME

TO: BORIS A. MATVENKO COMPANY: MINTZ, LEVIN ET AL.

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SERIAL NUMBER: 11115076 FILING DATE: 04/26/2005
PATENT NUMBER: ISSUE DATE:
TITLE: METHOD FOR THE PRODUCTION OF A BLOOD COMPONENT COMPOSITION

SERIAL NUMBER: 60283141 FILING DATE: 04/09/2001
PATENT NUMBER: ISSUE DATE:
TITLE: METHODS OF ISOLATING BLOOD COMPONENTS USING A MICROCENTRIFUGE AND
USES THEREOF

SERIAL NUMBER: 60388822 FILING DATE: 06/14/2002
PATENT NUMBER: ISSUE DATE:
TITLE: MULTIPLE RATIO FLUID DISPENSER

SERIAL NUMBER: 10876147 FILING DATE: 06/24/2004
PATENT NUMBER: ISSUE DATE:
TITLE: MULTIPLE RATIO FLUID DISPENSER

SERIAL NUMBER: 60388877 FILING DATE: 06/14/2002
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM FOR PRODUCING PLATELET RICH PLASMA

SERIAL NUMBER: 11271434 FILING DATE: 11/10/2005
PATENT NUMBER: 7252758 ISSUE DATE: 08/07/2007
TITLE: CENTRIFUGE SYSTEM UTILIZING DISPOSABLE COMPONENTS AND AUTOMATED
PROCESSING OF BLOOD TO COLLECT PLATELET RICH PLASMA

SERIAL NUMBER: 11518485 FILING DATE: 09/08/2006
PATENT NUMBER: 7306555 ISSUE DATE: 12/11/2007
TITLE: CENTRIFUGE SYSTEM UTILIZING DISPOSABLE COMPONENTS AND AUTOMATED
PROCESSING OF BLOOD TO COLLECT PLATELET RICH PLASMA

SERIAL NUMBER: 11810071 FILING DATE: 06/04/2007
PATENT NUMBER: ISSUE DATE:
TITLE: CENTRIFUGE SYSTEM UTILIZING DISPOSABLE COMPONENTS AND AUTOMATED
PROCESSING OF BLOOD TO COLLECT PLATELET RICH PLASMA

SERIAL NUMBER: 60629434 FILING DATE: 11/19/2004
PATENT NUMBER: ISSUE DATE:
TITLE: FIBRIN SEALANTS AND PLATELET CONCENTRATES APPLIED TO EFFECT
HEMOSTASIS AT THE INTERFACE OF AN IMPLANTABLE MEDICAL DEVICE WITH
BODY TISSUE

SERIAL NUMBER: 11282276 FILING DATE: 11/18/2005
PATENT NUMBER: ISSUE DATE:
TITLE: FIBRIN SEALANTS AND PLATELET CONCENTRATES APPLIED TO EFFECT
HEMOSTASIS AT THE INTERFACE OF AN IMPLANTABLE MEDICAL DEVICE WITH
BODY TISSUE

SERIAL NUMBER: 11341153 FILING DATE: 01/27/2006
PATENT NUMBER: ISSUE DATE:
TITLE: FLUID DISPENSER

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SERIAL NUMBER: 60794971 FILING DATE: 04/26/2006
PATENT NUMBER: ISSUE DATE:
TITLE: FIBRIN COMPOSITIONS AND METHODS OF PREPARATION THEREOF

SERIAL NUMBER: 11796045 FILING DATE: 04/26/2007
PATENT NUMBER: ISSUE DATE:
TITLE: COMPOSITIONS AND METHODS OF PREPARATION THEREOF

SERIAL NUMBER: 08786028 FILING DATE: 01/21/1997
PATENT NUMBER: 5769385 ISSUE DATE: 06/23/1998
TITLE: TUBING CLAMPS FOR BLOOD SEPARATING APPARATUS

SERIAL NUMBER: 08790076 FILING DATE: 01/28/1997
PATENT NUMBER: 5851169 ISSUE DATE: 12/22/1998
TITLE: ROTARY PLATE AND BOWL CLAMP FOR BLOOD CENTRIFUGE

SERIAL NUMBER: 08788427 FILING DATE: 01/28/1997
PATENT NUMBER: 5855773 ISSUE DATE: 01/05/1999
TITLE: CENTRIFUGE BOWL HOUSING AND LATCH FOR BLOOD SEPARATION APPARATUS

SERIAL NUMBER: 08791179 FILING DATE: 01/31/1997
PATENT NUMBER: 5964724 ISSUE DATE: 10/12/1999
TITLE: APPARATUS AND METHOD FOR BLOOD SEPARATION

SERIAL NUMBER: 09288145 FILING DATE: 04/08/1999
PATENT NUMBER: 6475175 ISSUE DATE: 11/05/2002
TITLE: METHOD AND APPARATUS FOR SEQUESTERING PLATELET RICH PLASMA

SERIAL NUMBER: 10189836 FILING DATE: 07/08/2002
PATENT NUMBER: 6855119 ISSUE DATE: 02/15/2005
TITLE: APPARATUS FOR SEQUESTERING PLATELET RICH PLASMA

SERIAL NUMBER: 09063338 FILING DATE: 04/20/1998
PATENT NUMBER: 6444228 ISSUE DATE: 09/03/2002
TITLE: AUTOLOGOUS FIBRIN SEALANT AND METHOD FOR MAKING THE SAME

SERIAL NUMBER: 10173839 FILING DATE: 06/18/2002
PATENT NUMBER: 6830762 ISSUE DATE: 12/14/2004
TITLE: AUTOLOGOUS FIBRIN SEALANT AND METHOD FOR MAKING THE SAME

SERIAL NUMBER: 08820201 FILING DATE: 03/19/1997
PATENT NUMBER: 5964690 ISSUE DATE: 10/12/1999
TITLE: MECHANISM FOR FIXING A BLOOD CENTRIFUGE BOWL TO A ROTATING SPINDLE

SERIAL NUMBER: 09832711 FILING DATE: 04/09/2001
PATENT NUMBER: 6579219 ISSUE DATE: 06/17/2003
TITLE: CENTRIFUGE BAG AND METHODS OF USE

SERIAL NUMBER: 10462426 FILING DATE: 06/16/2003
PATENT NUMBER: 6827863 ISSUE DATE: 12/07/2004
TITLE: FLEXIBLE CENTRIFUGE BAG AND METHODS OF USE

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SERIAL NUMBER: 09833230 FILING DATE: 04/09/2001
PATENT NUMBER: 6610002 ISSUE DATE: 08/26/2003
TITLE: METHOD FOR HANDLING BLOOD SAMPLE TO ENSURE BLOOD COMPONENTS ARE ISOLATED

SERIAL NUMBER: 09833231 FILING DATE: 04/09/2001
PATENT NUMBER: 6582350 ISSUE DATE: 06/24/2003
TITLE: CENTRIFUGE CONTAINER HAVING CURVED LINEAR SHAPE

SERIAL NUMBER: 09832729 FILING DATE: 04/09/2001
PATENT NUMBER: 6942639 ISSUE DATE: 09/13/2005
TITLE: AUTOLOGOUS PLATELET GEL DELIVERY SYSTEM

SERIAL NUMBER: 09832730 FILING DATE: 04/09/2001
PATENT NUMBER: 6612975 ISSUE DATE: 09/02/2003
TITLE: BLOOD CENTRIFUGE WITH AN ENHANCED INTERNAL DRIVE ASSEMBLY

SERIAL NUMBER: 09833232 FILING DATE: 04/09/2001
PATENT NUMBER: 6589155 ISSUE DATE: 07/08/2003
TITLE: MINIATURIZED BLOOD CENTRIFUGE HAVING SIDE MOUNTED MOTOR WITH BELT DRIVE

SERIAL NUMBER: 10408406 FILING DATE: 04/07/2003
PATENT NUMBER: 6951612 ISSUE DATE: 10/04/2005
TITLE: BLOOD CENTRIFUGE HAVING OVERHANGING DISPOSABLE BLOOD CONTAINER

SERIAL NUMBER: 09832741 FILING DATE: 04/09/2001
PATENT NUMBER: 6596181 ISSUE DATE: 07/22/2003
TITLE: HARD SHELL DISPOSABLE RESERVOIR HAVING COMPLEX INTERNAL DESIGN FOR USE IN A CENTRIFUGE

SERIAL NUMBER: 09832516 FILING DATE: 04/09/2001
PATENT NUMBER: 6605028 ISSUE DATE: 08/12/2003
TITLE: BLOOD CENTRIFUGE HAVING INTEGRAL HEATING TO CONTROL CELLULAR COMPONENT TEMPERATURE

SERIAL NUMBER: 09832463 FILING DATE: 04/09/2001
PATENT NUMBER: 6790371 ISSUE DATE: 09/14/2004
TITLE: SYSTEM AND METHOD FOR AUTOMATED SEPARATION OF BLOOD COMPONENTS

SERIAL NUMBER: 10396871 FILING DATE: 03/25/2003
PATENT NUMBER: 6887371 ISSUE DATE: 05/03/2005
TITLE: SYSTEM FOR AUTOMATED SEPARATION OF FLUID COMPONENTS

SERIAL NUMBER: 09833233 FILING DATE: 04/09/2001
PATENT NUMBER: 6835316 ISSUE DATE: 12/28/2004
TITLE: CLAM SHELL BLOOD RESERVOIR HOLDER WITH INDEX LINE

SERIAL NUMBER: 09833234 FILING DATE: 04/09/2001
PATENT NUMBER: 6596180 ISSUE DATE: 07/22/2003
TITLE: SYSTEM AND METHOD FOR THE PRODUCTION OF AUTOLOGOUS PLATELET GEL

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SERIAL NUMBER: 09832518 FILING DATE: 04/09/2001
PATENT NUMBER: 6942880 ISSUE DATE: 09/13/2005
TITLE: AUTOLOGOUS PLATELET GEL HAVING BENEFICIAL GEOMETRIC SHAPES AND
METHODS OF MAKING THE SAME

SERIAL NUMBER: 09832517 FILING DATE: 04/09/2001
PATENT NUMBER: 6719901 ISSUE DATE: 04/13/2004
TITLE: SYSTEM FOR THE PRODUCTION OF AUTOLOGOUS PLATELET GEL USEFUL FOR THE
DELIVERY OF MEDICINAL AND GENETIC AGENTS

SERIAL NUMBER: 10738439 FILING DATE: 12/17/2003
PATENT NUMBER: 6899813 ISSUE DATE: 05/31/2005
TITLE: METHOD FOR THE PRODUCTION OF A BLOOD COMPONENT COMPOSITION

SERIAL NUMBER: 10116729 FILING DATE: 04/04/2002
PATENT NUMBER: 6890728 ISSUE DATE: 05/10/2005
TITLE: METHODS OF ISOLATING BLOOD COMPONENTS USING A MICROCENTRIFUGE AND
USES THEREOF

SERIAL NUMBER: 09961793 FILING DATE: 09/24/2001
PATENT NUMBER: 6589153 ISSUE DATE: 07/08/2003
TITLE: BLOOD CENTRIFUGE WITH EXTERIOR MOUNTED, SELF-BALANCING COLLECTION
CHAMBERS

SERIAL NUMBER: 10431894 FILING DATE: 05/08/2003
PATENT NUMBER: 6793828 ISSUE DATE: 09/21/2004
TITLE: METHOD OF SEPARATING AND COLLECTING COMPONENTS FROM A FLUID

SERIAL NUMBER: 10212430 FILING DATE: 08/05/2002
PATENT NUMBER: 6936033 ISSUE DATE: 08/30/2005
TITLE: MULTIPLE RATIO FLUID DISPENSER

SERIAL NUMBER: 10340702 FILING DATE: 01/10/2003
PATENT NUMBER: 6982038 ISSUE DATE: 01/03/2006
TITLE: CENTRIFUGE SYSTEM UTILIZING DISPOSABLE COMPONENTS AND AUTOMATED
PROCESSING OF BLOOD TO COLLECT PLATELET RICH PLASMA

SERIAL NUMBER: FILING DATE: 02/03/1997
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US9701760
TITLE: APPARATUS AND METHOD FOR BLOOD SEPARATION

SERIAL NUMBER: FILING DATE: 04/30/1997
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US9708472
TITLE: METHOD FOR MAKING AUTOLOGOUS FIBRIN SEALANT

SERIAL NUMBER: FILING DATE: 04/19/1999
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US9908550
TITLE: AUTOLOGOUS FIBRIN SEALANT AND METHOD FOR MAKING SAME

TO: BORIS A. MATVENKO COMPANY: MINTZ, LEVIN ET AL.

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SERIAL NUMBER: FILING DATE: 03/18/1998
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US9805345
TITLE: MECHANISM FOR FIXING A BLOOD CENTRIFUGE BOWL TO A ROTATING SPINDLE

SERIAL NUMBER: FILING DATE: 04/05/2002
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0210991
TITLE: FLEXIBLE CENTRIFUGE BAG AND METHODS OF USE

SERIAL NUMBER: FILING DATE: 04/05/2002
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0210721
TITLE: CLOSED LOOP DRUG DELIVERY SYSTEM AND REMOTE MANAGEMENT THEREOF

SERIAL NUMBER: FILING DATE: 04/05/2002
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0210989
TITLE: SYSTEM FOR THE PRODUCTION OF AUTOLOGOUS PLATELET GEL

SERIAL NUMBER: FILING DATE: 04/04/2002
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0210676
TITLE: METHODS OF ISOLATING BLOOD COMPONENTS USING A MICROCENTRIFUGE AND
USES THEREOF

SERIAL NUMBER: FILING DATE: 09/04/2002
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0228158
TITLE: BLOOD CENTRIFUGE WITH EXTERIOR MOUNTED, SELF-BALANCING COLLECTION
CHAMBERS:

SERIAL NUMBER: FILING DATE: 06/12/2003
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0318591
TITLE: MULTIPLE RATIO FLUID DISPENSER

SERIAL NUMBER: FILING DATE: 06/12/2003
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0318527
TITLE: CENTRIFUGE SYSTEM UTILIZING DISPOSABLE COMPONENTS AND AUTOMATED
PROCESSING OF BLOOD TO COLLECT PLATELET RICH PLASMA

SERIAL NUMBER: FILING DATE: 04/26/2007
PATENT NUMBER: ISSUE DATE:
PCT NUMBER: US0767494
TITLE: COMPOSITIONS AND METHODS OF PREPARATION THEREOF

MARY BENTON, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

TO: BORIS A. MATVENKO COMPANY: MINTZ, LEVIN ET AL.

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

01/15/2008

500440311

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Medtronic, Inc.	10/24/2007
RECEIVING PARTY DATA	
Name:	Arteriocyte Medical Systems, Inc.
Street Address:	11000 Cedar Avenue
Internal Address:	Suite 270
City:	Cleveland
State/Country:	OHIO
Postal Code:	44106
PROPERTY NUMBERS Total: 71	
Property Type	Number
Application Number:	60010922
Patent Number:	5769385
Application Number:	60010944
Patent Number:	5851169
Application Number:	60010924
Patent Number:	5855773
Application Number:	60010939
Patent Number:	5964724
PCT Number:	US9701760
Patent Number:	6475175
Patent Number:	6855119
Application Number:	08640278
PCT Number:	US9708472
Patent Number:	6444228

CH \$2840.00 60010922

TO: BORIS A. MATVENKO COMPANY: MINTZ, LEVIN ET AL.

PCT Number:	US9908550
Patent Number:	6830762
Application Number:	10848302
Application Number:	11004023
Application Number:	11044984
Application Number:	11049010
Application Number:	11159482
Patent Number:	5964690
PCT Number:	US9805345
Patent Number:	6579219
PCT Number:	US0210991
Patent Number:	6827863
Application Number:	11003681
Patent Number:	6610002
Patent Number:	6582350
Patent Number:	6942639
Application Number:	11120305
Patent Number:	6612975
Patent Number:	6589155
PCT Number:	US0210721
Application Number:	09832881
Patent Number:	6951612
Patent Number:	6596181
Patent Number:	6605028
Patent Number:	6790371
Patent Number:	6887371
Patent Number:	6835316
Application Number:	11003912
Patent Number:	6596180
PCT Number:	US0210989
Patent Number:	6942880
Application Number:	11172200
Patent Number:	6719901
Patent Number:	6899813
Application Number:	11115076

TO: BORIS A. MATVENKO COMPANY: MINTZ, LEVIN ET AL.

Application Number:	60283141
Patent Number:	6890728
PCT Number:	US0210676
Patent Number:	6589153
PCT Number:	US0228158
Patent Number:	6793828
Application Number:	60388822
Patent Number:	6936033
PCT Number:	US0318591
Application Number:	10876147
Application Number:	60388877
Patent Number:	6982038
PCT Number:	US0318527
Application Number:	11271434
Application Number:	11518485
Application Number:	11810071
Application Number:	60629434
Application Number:	11282276
Application Number:	11341153
Application Number:	60794971
Application Number:	11796045
PCT Number:	US0767494

CORRESPONDENCE DATA

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Address Line 4: New York, NEW YORK 10017

ATTORNEY DOCKET NUMBER: 37272-500

NAME OF SUBMITTER: Boris A. Matvenko

Total Attachments: 5

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TO: BORIS A. MATVENKO COMPANY: MINTZ, LEVIN ET AL.

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source=Patent Assignment#page5.tif

PATENT ASSIGNMENT

WHEREAS, Medtronic, Inc. (the "Assignor") is the owner of the entire right, title and interest in and to the United States patents and patent applications, and such foreign patents and patent applications, as listed on Schedule 2.1(d)(i), attached hereto and made a part hereof, together with all reissuances, continuations, continuations-in-part, renewals, divisions, revisions, extensions, reexaminations and foreign counterparts thereof, the inventions described therein and all rights associated therewith (collectively, the "Patents");

WHEREAS, the Assignor is desirous of transferring to its designee ownership of said Patents;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound hereby, the Assignor, for itself and its successors and assigns, does hereby transfer, assign and set over unto Arteriocyte Medical Systems, Inc., a Delaware corporation, its successors, transferees and assigns, all of Assignor's present and future right, title and interest in and to the Patents, all rights to seek and collect damages and other relief for past and future infringements and all proceeds thereof and all other rights and proceeds associated therewith.

IN WITNESS WHEREOF, the undersigned has caused this Patent Assignment to be executed by its duly authorized officer as of this 24th day of October, 2007.

WITNESS:

By: 

Print Name: Jeffrey J. Steingalt

Title: Senior Legal Director

Medtronic, Inc.

By: 

Print Name: _____

Title: _____

ACKNOWLEDGEMENT

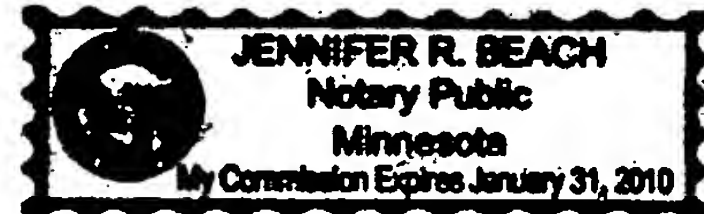
State of Minnesota)

SS

County of Anoka)

On the 24th day of October in the year 2007 before me, the undersigned, personally appeared Bob White, Vice President, Corporate Development, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Jennifer R. Beach



SCHEDULE 2.1(e)(i): PATENT RIGHTS

Medtronic P#00	Application Serial No.	Filing Date	Patent No.	Grant Date
4436.00	60/010,922	01/31/1996	none	none (PRV)
4436.00	08/786,028	01/21/1997	5,769,385	06/23/1998
4438.00	60/010,944	01/31/1996	none	none (PRV)
4438.00	08/790,076	01/28/1997	5,851,169	12/22/1998
4439.00	60/010,924	01/31/1996	none	none (PRV)
4439.00	08/788,427	01/28/1997	5,855,773	01/05/1999
4447.00	60/010,939	01/31/1996	none	none (PRV)
4447.00	08/791,179	01/31/1997	5,964,724	10/12/1999
4447.01 PCT	PCT/US97/01760	02/03/1997	none	none (PCT)
4447.02 EP	97906482.1	02/03/1997	none	pending
4447.03 Con1	09/288,145	04/08/1999	6,475,175	11/05/2002
4447.04 Con2	10/189,836	07/08/2002	6,855,119	02/15/2005
4457.00	08/640,278	04/30/1996	none	abandoned
4457.01 PCT1	PCT/US97/08472	04/30/1997	none	none (PCT)
4457.02 CIP1	09/063,338	04/20/1998	6,444,228	09/03/2002
4457.03 JP	539306/97	04/30/1997	pending	
4457.04 DE	29723807.8	04/30/1997	29723807.8	11/04/1999
4457.05 PCT2	PCT/US99/08550	04/19/1999	none	none (PCT)
4457.06 DE	19781869.2	04/30/1997	1978186	10/12/2006
4457.07 DE	19983144.0	04/19/1999	none	pending
4457.08 JP	611964/00	04/19/1999	none	pending
4457.09 Con1	10/173,839	06/18/2002	6,830,762	12/14/2004
4457.10 Con2	10/848,302	05/18/2004	none	pending
4457.11 Div1	11/004,023	12/03/2004	none	pending
4457.12 Con3	11/044,984	01/27/2005	none	pending
4457.13 Con4	11/049,010	02/02/2005	none	pending
4457.14 Con5	11/159,482	06/23/2005	none	pending
4457.15DE	19758895.6-45	06/21/2006	none	pending
4801.00	08/820,201	03/19/1997	5,964,690	10/12/1999

Medtronic P#00	Application Serial No.	Filing Date	Patent No.	Grant Date
4801.01 PCT	PCT/US98/05345	03/18/1998	none	none (PCT)
4801.02 EP	98912962.2	03/18/1998	none	abandoned
4801.02 DE	69809936	03/18/1998	none	abandoned
4801.03 JP	540773/98	03/18/1998	none	pending
4801.04 EP	02014154.5	03/18/1998	none	abandoned
9517.00	09/832,711	04/09/2001	6,579,219	06/17/2003
9517.01 PCT	PCT/US02/10991	04/05/2002	none	none (PCT)
9517.02 Div1	10/462,426	06/16/2003	6,827,863	12/07/2004
9517.03 EP	02733961.3	04/05/2002	none	pending
9517.04 Con1	11/003,681	12/03/2004	none	allowed
9518.00	09/833,230	04/09/2001	6,610,002	08/26/2003
9519.00	09/833,231	04/09/2001	6,582,350	06/24/2003
9520.00	09/832,729	04/09/2001	6,942,639	9/13/2005
9520.01 Con1	11/120,305	05/02/2005	none	pending
9521.00	09/832,730	04/09/2001	6,612,975	09/02/2003
9522.00	09/833,232	04/09/2001	6,589,155	07/08/2003
9522.01 PCT	PCT/US02/10721	04/05/2002	none	none (PCT)
9522.02 EP	02763954.1	04/05/2002	none	pending
9523.00	09/832,881	04/09/2001	none	abandoned
9523.01 Div1	10/408,406	04/07/2003	6,951,612	10/04/2005
9524.00	09/832,741	04/09/2001	6,596,181	07/22/2003
9525.00	09/832,516	04/09/2001	6,605,028	08/12/2003
9526.00	09/832,463	04/09/2001	6,790,371	09/14/2004
9526.01 Div1	10/396,871	03/25/2003	6,887,371	05/03/2005
9527.00	09/833,233	04/09/2001	6,835,316	12/28/2004
9527.01 Con1	11/003,912	12/03/2004	none	pending
9528.00	09/833,234	04/09/2001	6,596,180	07/22/2003
9528.01 PCT	PCT/US02/10989	04/05/2002	none	none (PCT)
9528.02 EP	02731293.3	04/05/2002	none	pending
9529.00	09/832,518	04/09/2001	6,942,880	09/13/2005
9529.01 Con1	11/172,200	06/30/2005	none	pending

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9530.00	09/832,517	04/09/2001	6,719,901	4/13/2004
9530.01 Con1	10/738,439	12/17/2003	6,899,813	05/31/2005
9530.02 Div1	11/115,076	04/26/2005	none	pending
10222.00	60/283,141	04/09/2001	none	none (PRV)
10222.00	10/116,729	04/04/2002	6,890,728	05/10/2005
10222.01 PCT	PCT/US02/10676	04/04/2002	none	none (PCT)
10222.02 JP	579045/02	04/04/2002	none	pending
10222.03 EP	02725527.2	04/04/2002	none	pending
10372.00	09/961,793	09/24/2001	6,589,153	07/08/2003
10372.01 PCT	PCT/US02/28158	09/04/2002	none	none (PCT)
10372.02 Div1	10/431,894	05/08/2003	6,793,828	09/21/2004
10372.03 JP	530429/03	09/04/2002	none	pending
10372.04 EP	02766230.3	09/04/2002	none	pending
10443.00	60/388,822	06/14/2002	none	none (PRV)
10443.00	10/212,430	08/05/2002	6,936,033	08/30/2005
10443.01 PCT	PCT/US03/18591	06/12/2003	none	none (PCT)
10433.02	10/876,147	06/24/2004	none	pending
10906.00	60/388,877	06/14/2002	none	none (PRV)
10906.00	10/340,702	01/10/2003	6,982,038	01/03/2006
10906.01 PCT	PCT/US2003/018527	06/12/2003	none	none (PCT)
10906.02 EP	03760288.5	06/12/2003	none	pending
10906.03 Con1	11/271,434	11/10/2005	none	pending
10906.04	11/518,485	09/08/2006	none	pending
10906.06	11/810,071	06/04/2007	none	pending
20476.00	60/629,434	11/19/2004	none	none (PRV)
20476.01	11/282,276	11/18/2005	none	pending
21801.01	11/341,153	01/27/2006	none	pending
23923.00	60/794,971	04/26/2006	none	None (PRV)
23923.01	11/796,045	04/26/2007	none	pending
23923.02	PCT/US07/67494	04/26/2007	none	(active PCT)